

Nama : Fatwa Dwi Hidayat

NIM : L200180176

Kelas : G

TUGAS PRAKTIKUM SISTEM BASIS DATA MODUL 4

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Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.18362.720]
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C:\Users\ASUS>cd..

C:\Users>cd..

C:\>cd C:\xampp\xampp\mysql\bin

C:\xampp\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 24
Server version: 10.4.11-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE kuliah;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> use kuliah;
Database changed
MariaDB [kuliah]> CREATE TABLE dosen(
  -> nip_dosen INTEGER PRIMARY KEY,
  -> nama_dosen VARCHAR(45) NOT NULL,
  -> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.203 sec)
```

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  -> alamat_dosen VARCHAR(45) NOT NULL);
Query OK, 0 rows affected (0.203 sec)

MariaDB [kuliah]> CREATE TABLE matkul(
  -> kode_matkul INTEGER PRIMARY KEY,
  -> nama_matkul VARCHAR(45) NOT NULL,
  -> jumlah_matkul INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.293 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa(
  -> NIM_mahasiswa VARCHAR(20) PRIMARY KEY,
  -> nama_mahasiswa VARCHAR(45) NOT NULL,
  -> alamat_mahasiswa VARCHAR(45) NOT NULL,
  -> kode_ruangFK INTEGER REFERENCES ruang(kode_ruang) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.444 sec)

MariaDB [kuliah]> CREATE TABLE ruang(
  -> kode_ruang INTEGER PRIMARY KEY,
  -> nama_ruang VARCHAR(45) NOT NULL,
  -> kapasitas_ruang INTEGER DEFAULT 0 NOT NULL);
Query OK, 0 rows affected (0.252 sec)

MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
  -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
  -> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NUL ON UPDATE CASCADE);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server versi
on for the right syntax to use near 'NUL ON UPDATE CASCADE)' at line 3
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
  -> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
  -> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);
```

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```
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
-> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.441 sec)

MariaDB [kuliah]> CREATE TABLE mahasiswa_has_matkul(
-> NIM_mahasiswaFK VARCHAR(20) REFERENCES mahasiswa(NIM_mahasiswa) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.400 sec)

MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '' at line 2
MariaDB [kuliah]> CREATE TABLE dosen_has_mahasiswa(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE)
-> );
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '):' at line 3
MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ')' at line 3
MariaDB [kuliah]> CREATE TABLE dosen_has_matkul(
-> nip_dosenFK INTEGER REFERENCES dosen(nip_dosen) ON DELETE SET NULL ON UPDATE CASCADE,
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.293 sec)
```

Command Prompt - mysql -u root -p

```
-> kode_matkulFK INTEGER REFERENCES matkul(kode_matkul) ON DELETE SET NULL ON UPDATE CASCADE);
Query OK, 0 rows affected (0.293 sec)
```

MariaDB [kuliah]> show tables;

```
+-----+
| Tables_in_kuliah |
+-----+
| dosen             |
| dosen_has_mahasiswa |
| dosen_has_matkul  |
| mahasiswa         |
| mahasiswa_has_matkul |
| matkul            |
| ruang             |
+-----+
```

7 rows in set (0.001 sec)

MariaDB [kuliah]> describe mahasiswa;

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| NIM_mahasiswa  | varchar(20)   | NO   | PRI | NULL    |       |
| nama_mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| alamat_mahasiswa | varchar(45)   | NO   |     | NULL    |       |
| kode_ruangFK   | int(11)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.004 sec)

MariaDB [kuliah]>

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MariaDB [kuliah]> describe mahasiswa;

Field	Type	Null	Key	Default	Extra
NIM_mahasiswa	varchar(20)	NO	PRI	NULL	
nama_mahasiswa	varchar(45)	NO		NULL	
alamat_mahasiswa	varchar(45)	NO		NULL	
kode_ruangFK	int(11)	YES		NULL	

4 rows in set (0.004 sec)

MariaDB [kuliah]> describe dosen;

Field	Type	Null	Key	Default	Extra
nip_dosen	int(11)	NO	PRI	NULL	
nama_dosen	varchar(45)	NO		NULL	
alamat_dosen	varchar(45)	NO		NULL	

3 rows in set (0.003 sec)

MariaDB [kuliah]> describe ruang;

Field	Type	Null	Key	Default	Extra
kode_ruang	int(11)	NO	PRI	NULL	
nama_ruang	varchar(45)	NO		NULL	
kapasitas_ruang	int(11)	NO		0	

3 rows in set (0.018 sec)

Command Prompt - mysql -u root -p

3 rows in set (0.003 sec)

MariaDB [kuliah]> describe ruang;

Field	Type	Null	Key	Default	Extra
kode_ruang	int(11)	NO	PRI	NULL	
nama_ruang	varchar(45)	NO		NULL	
kapasitas_ruang	int(11)	NO		0	

3 rows in set (0.018 sec)

MariaDB [kuliah]> describe matkul;

Field	Type	Null	Key	Default	Extra
kode_matkul	int(11)	NO	PRI	NULL	
nama_matkul	varchar(45)	NO		NULL	
jumlah_matkul	int(11)	NO		0	

3 rows in set (0.018 sec)

MariaDB [kuliah]>